Mechanisms of Ageing and Development, 67 (1993) 305–307
Elsevier Scientific Publishers Ireland Ltd.

MECHANISMS OF AGEING AND DEVELOPMENT

VOLUME CONTENTS

Volume 67 (1993)

Age-dependent differences of ATP breakdwn and ATP-catabolite release in ischemic and reperfused hearts 1
C. Muscari, C. Finelli, C. Stefanelli, F. Flamigni, C. Guarnieri and C.M. Caldarera (Bologna Italy)

Red blood cell age dependent modifications of inositol 1,4,5-trisphosphate 13
H. Hrusova, A. Strunecka, M.P. Piacentini, A. Accorsi and M. Magnani (Prague, Czechoslovakia; Urbino, Italy)

Interphase genome as the active space: chromatin dynamics during chick embryo chondrogenesis 21
J. Ērenpreisa and A. Zhukotsky (Riga, Latvia; Moscow, Russia)

Macrophages suppress lectin-induced proliferation of lymphocytes from aged rats 33
R.A. Franklin, S. Arkins, Y.M. Li and K.W. Kelley (Urbana, IL)

Age-related reduction of reflex bradycardia in conscious rats by catecholaminergic nucleus tractus solitarius lesions 47
H. Itoh and R.D. Buñag (Kansas City, KS)

Longitudinal Gompertzian analysis of non-Hodgkin's lymphoma mortality in the US, 1979–1988: demonstration of the environmental basis for rising overall mortality 67
J.E. Riggs and K. Chen (Morgantown, WV; Hangzhou, People's Republic of China)

The age-dependent proliferation of rat aortic smooth muscle cells in independent of differential splicing of PDGF A-chain mRNA 79
P. Szabo, D. Weksler, E. Whittington and B.B. Weksler (New York, NY)

Changes with ageing in total dolichol and dolichol fractions in *Drosophila* 91
S.M. Sternick, H.R. Massie and S.J.P. Whitney (Utica, NY)

Evidence for age-dependent impairment of antiviral 2′,5′-oligoadenylate synthetase/ribonuclease L-system in tissues of rat 101
K. Pfeifer, H. Ushijima, B. Lorenz, W.E.G. Müller and H.C. Schröder (Mainz, Germany; Tokyo, Japan)

Lung glutathione reductase induction in aging catalase-depleted frogs correlates with early survival throughout the life span 115
R. Perez-Campo, M. Lopez-Torres, C. Rojas, S. Cadenas and G.B. De Quiroga (Madrid, Spain)

Age changes in visceral content of glutathione in the senescence accelerated mouse (SAM) 129
Y. Uejima, Y. Fukuchi, S. Teramoto, R. Tabata and H. Orimo (Tokyo, Japan)

Pulmonary pentane excretion increases with age in healthy subjects 141
E.J. Zarling, S. Mobarhan, P. Bowen and S. Kamath (Maywood and Chicago, IL)

Age-related changes in collagen gel contraction by cultured human lung fibroblasts resulting in cross-over of contraction curves between young and aged cells 145
M. Yamato, K. Yamamoto and T. Hayashi (Tokyo, Japan)

A mathematical model of the effect of aging on bone marrow cells colonizing the thymus 159
R. Mehr, L. Abel, P. Ubezio, A. Globerson and Z. Agur (Rehovot, Israel; Milan, Italy) 159

The in vitro senescence of human T lymphocytes: failure to divide is not associated with a loss of cytolytic activity or memory T cell phenotype 173
N.L. Perillo, F. Naeim, R.L. Walford and R.B. Effros (Los Angeles, CA)

Effects of wheel running on glucose transporter (GLUT4) concentration in skeletal muscle of young adult and old rats 187
E.A. Gulve, K.J. Rodnick, E.J. Henriksen and J.O. Holloszy (St. Louis, MO)

Stereoselective pharmacokinetics of atenolol in the rat: influence of aging and of renal failure 201
F.M. Belpaire, M.-T. Rosseel, A.M. Vermeulen, F. De Smet and M.G. Bogaert (Gent, Belgium)

Morphometric and neurochemical changes in rat superior cervical ganglion during growth and adulthood 211
A. Messina and C. Bell (Victoria, Australia)

Inhibition of iron absorption prolongs the life span of *Drosophila*
H.R. Massie, V.R. Aiello and T.R. Williams (New York, NY) 227

The dynamics of aging and mortality in the People's Republic of China
Z. Shao, W. Gao, Y. Yao, Y. Zhuo and J.E. Riggs (Hangzhou, People's Republic of China; Morgantown, WV) 239

Onset of human aging estimated from hazard functions associated with various causes of death
H.U. Lunder (Zurich, Switzerland) 247

Effects of age and dopamine agonists and antagonists on striatal dopamine release in the rat: an in vivo microdialysis study
M. Santiago and A. Machado and J. Cano (Seville, Spain) 261

A monogenic senility syndrome segregating with longevity in mice
D.D. Adams, J.D. Adams, W.O. Lucas, J.S. Springford and B.B. Berkeley (Dunedin, New Zealand) 269

Quantitative analysis of the cervical sympathetic trunk in young adult and aged rats
R.M. Santer (Cardiff, UK) 289
Author Index 299
Subject Index 301
Volume Contents 305